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aaaaa 4145
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<210> 5
<211> 908
<212> PRT
<213> Mus musculus

<400> 5

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Met Pro Ser Ser Gly Pro Gly Asp Thr Ser Ser Ser Ser Leu Glu Arg
  1               5                   10                  15

Glu Asp Asp Arg Lys Glu Gly Glu Glu Gln Glu Glu Asn Arg Gly Lys
                20                  25                  30

Glu Glu Arg Gln Glu Pro Ser Ala Thr Ala Arg Lys Val Gly Arg Pro
```

```
            35                    40                     45

Gly Arg Lys Arg Lys His Pro Pro Val Glu Ser Ser Asp Thr Pro Lys
        50                    55                     60

Asp Pro Ala Val Thr Thr Lys Ser Gln Pro Met Ala Gln Asp Ser Gly
65                    70                     75                  80

Pro Ser Asp Leu Leu Pro Asn Gly Asp Leu Glu Lys Arg Ser Glu Pro
                    85                    90                     95

Gln Pro Glu Glu Gly Ser Pro Ala Ala Gly Gln Lys Gly Gly Ala Pro
                100                   105                    110

Ala Glu Gly Glu Gly Thr Glu Thr Pro Pro Glu Ala Ser Arg Ala Val
            115                   120                    125

Glu Asn Gly Cys Cys Val Thr Lys Glu Gly Arg Gly Ala Ser Ala Gly
        130                   135                    140

Glu Gly Lys Glu Gln Lys Gln Thr Asn Ile Glu Ser Met Lys Met Glu
145                   150                   155                   160

Gly Ser Arg Gly Arg Leu Arg Gly Gly Leu Gly Trp Glu Ser Ser Leu
                165                   170                    175

Arg Gln Arg Pro Met Pro Arg Leu Thr Phe Gln Ala Gly Asp Pro Tyr
                180                   185                    190

Tyr Ile Ser Lys Arg Lys Arg Asp Glu Trp Leu Ala Arg Trp Lys Arg
                195                   200                    205

Glu Ala Glu Lys Lys Ala Lys Val Ile Ala Val Met Asn Ala Val Glu
        210                   215                    220

Glu Asn Gln Ala Ser Gly Glu Ser Gln Lys Val Glu Glu Ala Ser Pro
225                   230                   235                   240

Pro Ala Val Gln Gln Pro Thr Asp Pro Ala Ser Pro Thr Val Ala Thr
```

```
                    245                    250                        255


Thr Pro Glu Pro Val Gly Gly Asp Ala Gly Asp Lys Asn Ala Thr Lys
             260                265                270


Ala Ala Asp Asp Glu Pro Glu Tyr Glu Asp Gly Arg Gly Phe Gly Ile
         275                280                285


Gly Glu Leu Val Trp Gly Lys Leu Arg Gly Phe Ser Trp Trp Pro Gly
    290                295                300


Arg Ile Val Ser Trp Trp Met Thr Gly Arg Ser Arg Ala Ala Glu Gly
305                310                315                320


Thr Arg Trp Val Met Trp Phe Gly Asp Gly Lys Phe Ser Val Val Cys
             325                330                335


Val Glu Lys Leu Met Pro Leu Ser Ser Phe Cys Ser Ala Phe His Gln
         340                345                350


Ala Thr Tyr Asn Lys Gln Pro Met Tyr Arg Lys Ala Ile Tyr Glu Val
         355                360                365


Leu Gln Val Ala Ser Ser Arg Ala Gly Lys Leu Phe Pro Ala Cys His
    370                375                380


Asp Ser Asp Glu Ser Asp Ser Gly Lys Ala Val Glu Val Gln Asn Lys
385                390                395                400


Gln Met Ile Glu Trp Ala Leu Gly Gly Phe Gln Pro Ser Gly Pro Lys
             405                410                415


Gly Leu Glu Pro Pro Glu Glu Glu Lys Asn Pro Tyr Lys Glu Val Tyr
         420                425                430


Thr Asp Met Trp Val Glu Pro Glu Ala Ala Ala Tyr Ala Pro Pro Pro
         435                440                445


Pro Ala Lys Lys Pro Arg Lys Ser Thr Thr Glu Lys Pro Lys Val Lys
```

450   455   460

Glu Ile Ile Asp Glu Arg Thr Arg Glu Arg Leu Val Tyr Glu Val Arg
465   470   475   480

Gln Lys Cys Arg Asn Ile Glu Asp Ile Cys Ile Ser Cys Gly Ser Leu
          485   490   495

Asn Val Thr Leu Glu His Pro Leu Phe Ile Gly Gly Met Cys Gln Asn
          500   505   510

Cys Lys Asn Cys Phe Leu Glu Cys Ala Tyr Gln Tyr Asp Asp Asp Gly
          515   520   525

Tyr Gln Ser Tyr Cys Thr Ile Cys Cys Gly Gly Arg Glu Val Leu Met
          530   535   540

Cys Gly Asn Asn Asn Cys Cys Arg Cys Phe Cys Val Glu Cys Val Asp
545   550   555   560

Leu Leu Val Gly Pro Gly Ala Ala Gln Ala Ala Ile Lys Glu Asp Pro
          565   570   575

Trp Asn Cys Tyr Met Cys Gly His Lys Gly Thr Tyr Gly Leu Leu Arg
          580   585   590

Arg Arg Glu Asp Trp Pro Ser Arg Leu Gln Met Phe Phe Ala Asn Asn
          595   600   605

His Asp Gln Glu Phe Asp Pro Pro Lys Val Tyr Pro Pro Val Pro Ala
          610   615   620

Glu Lys Arg Lys Pro Ile Arg Val Leu Ser Leu Phe Asp Gly Ile Ala
625   630   635   640

Thr Gly Leu Leu Val Leu Lys Asp Leu Gly Ile Gln Val Asp Arg Tyr
          645   650   655

Ile Ala Ser Glu Val Cys Glu Asp Ser Ile Thr Val Gly Met Val Arg

```
             660                    665                       670

His Gln Gly Lys Ile Met Tyr Val Gly Asp Val Arg Ser Val Thr Gln
        675                  680                  685

Lys His Ile Gln Glu Trp Gly Pro Phe Asp Leu Val Ile Gly Gly Ser
        690              695                  700

Pro Cys Asn Asp Leu Ser Ile Val Asn Pro Ala Arg Lys Gly Leu Tyr
705                      710              715                  720

Glu Gly Thr Gly Arg Leu Phe Phe Glu Phe Tyr Arg Leu Leu His Asp
                725                  730                  735

Ala Arg Pro Lys Glu Gly Asp Asp Arg Pro Phe Phe Trp Leu Phe Glu
            740                  745                  750

Asn Val Val Ala Met Gly Val Ser Asp Lys Arg Asp Ile Ser Arg Phe
            755                  760                  765

Leu Glu Ser Asn Pro Val Met Ile Asp Ala Lys Glu Val Ser Ala Ala
        770                  775                  780

His Arg Ala Arg Tyr Phe Trp Gly Asn Leu Pro Gly Met Asn Arg Pro
785                  790                  795                  800

Leu Ala Ser Thr Val Asn Asp Lys Leu Glu Leu Gln Glu Cys Leu Glu
            805                  810                  815

His Gly Arg Ile Ala Lys Phe Ser Lys Val Arg Thr Ile Thr Thr Arg
            820                  825                  830

Ser Asn Ser Ile Lys Gln Gly Lys Asp Gln His Phe Pro Val Phe Met
            835                  840                  845

Asn Glu Lys Glu Asp Ile Leu Trp Cys Thr Glu Met Glu Arg Val Phe
        850                  855                  860

Gly Phe Pro Val His Tyr Thr Asp Val Ser Asn Met Ser Arg Leu Ala
```

865   870   875   880

Arg Gln Arg Leu Leu Gly Arg Ser Trp Ser Val Pro Val Ile Arg His
              885   890   895

Leu Phe Ala Pro Leu Lys Glu Tyr Phe Ala Cys Val
          900   905

<210> 6
<211> 859
<212> PRT
<213> Mus musculus

<400> 6
Met Lys Gly Asp Ser Arg His Leu Asn Glu Glu Glu Gly Ala Ser Gly
 1   5   10   15

Tyr Glu Glu Cys Ile Ile Val Asn Gly Asn Phe Ser Asp Gln Ser Ser
         20   25   30

Asp Thr Lys Asp Ala Pro Ser Pro Pro Val Leu Glu Ala Ile Cys Thr
      35   40   45

Glu Pro Val Cys Thr Pro Glu Thr Arg Gly Arg Arg Ser Ser Ser Arg
   50   55   60

Leu Ser Lys Arg Glu Val Ser Ser Leu Leu Asn Tyr Thr Gln Asp Met
65   70   75   80

Thr Gly Asp Gly Asp Arg Asp Asp Glu Val Asp Asp Gly Asn Gly Ser
         85   90   95

Asp Ile Leu Met Pro Lys Leu Thr Arg Glu Thr Lys Asp Thr Arg Thr
         100   105   110

Arg Ser Glu Ser Pro Ala Val Arg Thr Arg His Ser Asn Gly Thr Ser
      115   120   125

Ser Leu Glu Arg Gln Arg Ala Ser Pro Arg Ile Thr Arg Gly Arg Gln
    130   135   140

Gly Arg His His Val Gln Glu Tyr Pro Val Glu Phe Pro Ala Thr Arg
145   150   155   160

Ser Arg Arg Arg Arg Ala Ser Ser Ser Ala Ser Thr Pro Trp Ser Ser
                165   170   175

Pro Ala Ser Val Asp Phe Met Glu Glu Val Thr Pro Lys Ser Val Ser
                180   185   190

Thr Pro Ser Val Asp Leu Ser Gln Asp Gly Asp Gln Glu Gly Met Asp
            195   200   205

Thr Thr Gln Val Asp Ala Glu Ser Arg Asp Gly Asp Ser Thr Glu Tyr
    210   215   220

Gln Asp Asp Lys Glu Phe Gly Ile Gly Asp Leu Val Trp Gly Lys Ile
225   230   235   240

Lys Gly Phe Ser Trp Trp Pro Ala Met Val Val Ser Trp Lys Ala Thr
                245   250   255

Ser Lys Arg Gln Ala Met Pro Gly Met Arg Trp Val Gln Trp Phe Gly
            260   265   270

Asp Gly Lys Phe Ser Glu Ile Ser Ala Asp Lys Leu Val Ala Leu Gly
            275   280   285

Leu Phe Ser Gln His Phe Asn Leu Ala Thr Phe Asn Lys Leu Val Ser
    290   295   300

Tyr Arg Lys Ala Met Tyr His Thr Leu Glu Lys Ala Arg Val Arg Ala
305   310   315   320

Gly Lys Thr Phe Ser Ser Ser Pro Gly Glu Ser Leu Glu Asp Gln Leu
                325   330   335

Lys Pro Met Leu Glu Trp Ala His Gly Gly Phe Lys Pro Thr Gly Ile
        340   345   350

Glu Gly Leu Lys Pro Asn Lys Lys Gln Pro Val Val Asn Lys Ser Lys
        355   360   365

Val Arg Arg Ser Asp Ser Arg Asn Leu Glu Pro Arg Arg Arg Glu Asn
    370   375   380

Lys Ser Arg Arg Arg Thr Thr Asn Asp Ser Ala Ala Ser Glu Ser Pro
385   390   395   400

Pro Pro Lys Arg Leu Lys Thr Asn Ser Tyr Gly Gly Lys Asp Arg Gly
            405   410   415

Glu Asp Glu Glu Ser Arg Glu Arg Met Ala Ser Glu Val Thr Asn Asn
            420   425   430

Lys Gly Asn Leu Glu Asp Arg Cys Leu Ser Cys Gly Lys Lys Asn Pro
            435   440   445

Val Ser Phe His Pro Leu Phe Glu Gly Gly Leu Cys Gln Ser Cys Arg
        450   455   460

Asp Arg Phe Leu Glu Leu Phe Tyr Met Tyr Asp Glu Asp Gly Tyr Gln
465   470   475   480

Ser Tyr Cys Thr Val Cys Cys Glu Gly Arg Glu Leu Leu Leu Cys Ser
            485   490   495

Asn Thr Ser Cys Cys Arg Cys Phe Cys Val Glu Cys Leu Glu Val Leu
            500   505   510

Val Gly Ala Gly Thr Ala Glu Asp Ala Lys Leu Gln Glu Pro Trp Ser
            515   520   525

Cys Tyr Met Cys Leu Pro Gln Arg Cys His Gly Val Leu Arg Arg Arg
        530   535 .   540

Lys Asp Trp Asn Met Arg Leu Gln Asp Phe Phe Thr Thr Asp Pro Asp
545   550   555   560

Leu Glu Glu Phe Glu Pro Pro Lys Leu Tyr Pro Ala Ile Pro Ala Ala
                565   570   575

Lys Arg Arg Pro Ile Arg Val Leu Ser Leu Phe Asp Gly Ile Ala Thr
            580   585   590

Gly Tyr Leu Val Leu Lys Glu Leu Gly Ile Lys Val Glu Lys Tyr Ile
        595   600   605

Ala Ser Glu Val Cys Ala Glu Ser Ile Ala Val Gly Thr Val Lys His
    610   615   620

Glu Gly Gln Ile Lys Tyr Val Asn Asp Val Arg Lys Ile Thr Lys Lys
625   630   635   640

Asn Ile Glu Glu Trp Gly Pro Phe Asp Leu Val Ile Gly Gly Ser Pro
            645   650   655

Cys Asn Asp Leu Ser Asn Val Asn Pro Ala Arg Lys Gly Leu Tyr Glu
            660   665   670

Gly Thr Gly Arg Leu Phe Phe Glu Phe Tyr His Leu Leu Asn Tyr Thr
        675   680   685

Arg Pro Lys Glu Gly Asp Asn Arg Pro Phe Phe Trp Met Phe Glu Asn
        690   695   700

Val Val Ala Met Lys Val Asn Asp Lys Lys Asp Ile Ser Arg Phe Leu
705   710   715   720

Ala Cys Asn Pro Val Met Ile Asp Ala Ile Lys Val Ser Ala Ala His
            725   730   735

Arg Ala Arg Tyr Phe Trp Gly Asn Leu Pro Gly Met Asn Arg Pro Val
            740   745   750

```
Met Ala Ser Lys Asn Asp Lys Leu Glu Leu Gln Asp Cys Leu Glu Phe
        755             760             765

Ser Arg Thr Ala Lys Leu Lys Lys Val Gln Thr Ile Thr Thr Lys Ser
        770             775             780

Asn Ser Ile Arg Gln Gly Lys Asn Gln Leu Phe Pro Val Val Met Asn
785             790             795             800

Gly Lys Asp Asp Val Leu Trp Cys Thr Glu Leu Glu Arg Ile Phe Gly
            805             810             815

Phe Pro Ala His Tyr Thr Asp Val Ser Asn Met Gly Arg Gly Ala Arg
            820             825             830

Gln Lys Leu Leu Gly Arg Ser Trp Ser Val Pro Val Ile Arg His Leu
        835             840             845

Phe Ala Pro Leu Lys Asp Tyr Phe Ala Cys Glu
        850             855
```

<210> 7
<211> 912
<212> PRT
<213> Homo sapiens

<400> 7

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Met Pro Ala Met Pro Ser Ser Gly Pro Gly Asp Thr Ser Ser Ser Ala
 1               5              10              15

Ala Glu Arg Glu Glu Asp Arg Lys Asp Gly Glu Glu Gln Glu Glu Pro
            20              25              30

Arg Gly Lys Glu Glu Arg Gln Glu Pro Ser Thr Thr Ala Arg Lys Val
        35              40              45

Gly Arg Pro Gly Arg Lys Arg Lys His Pro Pro Val Glu Ser Gly Asp
    50              55              60
```

```
Thr Pro Lys Asp Pro Ala Val Ile Ser Lys Ser Pro Ser Met Ala Gln
 65             70             75             80


Asp Ser Gly Ala Ser Glu Leu Leu Pro Asn Gly Asp Leu Glu Lys Arg
                85             90             95


Ser Glu Pro Gln Pro Glu Glu Gly Ser Pro Ala Gly Gly Gln Lys Gly
            100            105            110


Gly Ala Pro Ala Glu Gly Glu Gly Ala Ala Glu Thr Leu Pro Glu Ala
            115            120            125


Ser Arg Ala Val Glu Asn Gly Cys Cys Thr Pro Lys Glu Gly Arg Gly
    130            135            140


Ala Pro Ala Glu Ala Gly Lys Glu Gln Lys Glu Thr Asn Ile Glu Ser
145            150            155            160


Met Lys Met Glu Gly Ser Arg Gly Arg Leu Arg Gly Gly Leu Gly Trp
                165            170            175


Glu Ser Ser Leu Arg Gln Arg Pro Met Pro Arg Leu Thr Phe Gln Ala
            180            185            190


Gly Asp Pro Tyr Tyr Ile Ser Lys Arg Lys Arg Asp Glu Trp Leu Ala
            195            200            205


Arg Trp Lys Arg Glu Ala Glu Lys Lys Ala Lys Val Ile Ala Gly Met
    210            215            220


Asn Ala Val Glu Glu Asn Gln Gly Pro Gly Glu Ser Gln Lys Val Glu
225            230            235            240


Glu Ala Ser Pro Pro Ala Val Gln Gln Pro Thr Asp Pro Ala Ser Pro
            245            250            255


Thr Val Ala Thr Thr Pro Glu Pro Val Gly Ser Asp Ala Gly Asp Lys
            260            265            270
```

```
Asn Ala Thr Lys Ala Gly Asp Asp Glu Pro Glu Tyr Glu Asp Gly Arg
        275             280             285

Gly Phe Gly Ile Gly Glu Leu Val Trp Gly Lys Leu Arg Gly Phe Ser
        290             295             300

Trp Trp Pro Gly Arg Ile Val Ser Trp Trp Met Thr Gly Arg Ser Arg
305             310             315             320

Ala Ala Glu Gly Thr Arg Trp Val Met Trp Phe Gly Asp Gly Lys Phe
            325             330             335

Ser Val Val Cys Val Glu Lys Leu Met Pro Leu Ser Ser Phe Cys Ser
            340             345             350

Ala Phe His Gln Ala Thr Tyr Asn Lys Gln Pro Met Tyr Arg Lys Ala
        355             360             365

Ile Tyr Glu Val Leu Gln Val Ala Ser Ser Arg Ala Gly Lys Leu Phe
        370             375             380

Pro Val Cys His Asp Ser Asp Glu Ser Asp Thr Ala Lys Ala Val Glu
385             390             395             400

Val Gln Asn Lys Pro Met Ile Glu Trp Ala Leu Gly Gly Phe Gln Pro
            405             410             415

Ser Gly Pro Lys Gly Leu Glu Pro Pro Glu Glu Glu Lys Asn Pro Tyr
            420             425             430

Lys Glu Val Tyr Thr Asp Met Trp Val Glu Pro Glu Ala Ala Ala Tyr
        435             440             445

Ala Pro Pro Pro Pro Ala Lys Lys Pro Arg Lys Ser Thr Ala Glu Lys
        450             455             460

Pro Lys Val Lys Glu Ile Ile Asp Glu Arg Thr Arg Glu Arg Leu Val
465             470             475             480
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Tyr Glu Val Arg Gln Lys Cys Arg Asn Ile Glu Asp Ile Cys Ile Ser
            485   490   495

Cys Gly Ser Leu Asn Val Thr Leu Glu His Pro Leu Phe Val Gly Gly
            500   505   510

Met Cys Gln Asn Cys Lys Asn Cys Phe Leu Glu Cys Ala Tyr Gln Tyr
            515   520   525

Asp Asp Asp Gly Tyr Gln Ser Tyr Cys Thr Ile Cys Cys Gly Gly Arg
            530   535   540

Glu Val Leu Met Cys Gly Asn Asn Asn Cys Cys Arg Cys Phe Cys Val
545   550   555   560

Glu Cys Val Asp Leu Leu Val Gly Pro Gly Ala Ala Gln Ala Ala Ile
            565   570   575

Lys Glu Asp Pro Trp Asn Cys Tyr Met Cys Gly His Lys Gly Thr Tyr
            580   585   590

Gly Leu Leu Arg Arg Arg Glu Asp Trp Pro Ser Arg Leu Gln Met Phe
            595   600   605

Phe Ala Asn Asn His Asp Gln Glu Phe Asp Pro Pro Lys Val Tyr Pro
            610   615   620

Pro Val Pro Ala Glu Lys Arg Lys Pro Ile Arg Val Leu Ser Leu Phe
625   630   635   640

Asp Gly Ile Ala Thr Gly Leu Leu Val Leu Lys Asp Leu Gly Ile Gln
            645   650   655

Val Asp Arg Tyr Ile Ala Ser Glu Val Cys Glu Asp Ser Ile Thr Val
            660   665   670

Gly Met Val Arg His Gln Gly Lys Ile Met Tyr Val Gly Asp Val Arg
            675   680   685

Ser Val Thr Gln Lys His Ile Gln Glu Trp Gly Pro Phe Asp Leu Val
   690   695   700

Ile Gly Gly Ser Pro Cys Asn Asp Leu Ser Ile Val Asn Pro Ala Arg
705   710   715   720

Lys Gly Leu Tyr Glu Gly Thr Gly Arg Leu Phe Phe Glu Phe Tyr Arg
          725   730   735

Leu Leu His Asp Ala Arg Pro Lys Glu Gly Asp Asp Arg Pro Phe Phe
        740   745   750

Trp Leu Phe Glu Asn Val Val Ala Met Gly Val Ser Asp Lys Arg Asp
    755   760   765

Ile Ser Arg Phe Leu Glu Ser Asn Pro Val Met Ile Asp Ala Lys Glu
   770   775   780

Val Ser Ala Ala His Arg Ala Arg Tyr Phe Trp Gly Asn Leu Pro Gly
785   790   795   800

Met Asn Arg Pro Leu Ala Ser Thr Val Asn Asp Lys Leu Glu Leu Gln
        805   810   815

Glu Cys Leu Glu His Gly Arg Ile Ala Lys Phe Ser Lys Val Arg Thr
        820   825   830

Ile Thr Thr Arg Ser Asn Ser Ile Lys Gln Gly Lys Asp Gln His Phe
        835   840   845

Pro Val Phe Met Asn Glu Lys Glu Asp Ile Leu Trp Cys Thr Glu Met
        850   855   860

Glu Arg Val Phe Gly Phe Pro Val His Tyr Thr Asp Val Ser Asn Met
865   870   875   880

Ser Arg Leu Ala Arg Gln Arg Leu Leu Gly Arg Ser Trp Ser Val Pro
        885   890   895

Val Ile Arg His Leu Phe Ala Pro Leu Lys Glu Tyr Phe Ala Cys Val
        900   905   910

<210> 8
<211> 853
<212> PRT
<213> Homo sapiens

<400> 8
Met Lys Gly Asp Thr Arg His Leu Asn Gly Glu Glu Asp Ala Gly Gly
 1   5   10   15

Arg Glu Asp Ser Ile Leu Val Asn Gly Ala Cys Ser Asp Gln Ser Ser
            20   25   30

Asp Ser Pro Pro Ile Leu Glu Ala Ile Arg Thr Pro Glu Ile Arg Gly
         35   40   45

Arg Arg Ser Ser Ser Arg Leu Ser Lys Arg Glu Val Ser Ser Leu Leu
    50   55   60

Ser Tyr Thr Gln Asp Leu Thr Gly Asp Gly Asp Gly Glu Asp Gly Asp
 65   70   75   80

Gly Ser Asp Thr Pro Val Met Pro Lys Leu Phe Arg Glu Thr Arg Thr
                85   90   95

Arg Ser Glu Ser Pro Ala Val Arg Thr Arg Asn Asn Asn Ser Val Ser
            100   105   110

Ser Arg Glu Arg His Arg Pro Ser Pro Arg Ser Thr Arg Gly Arg Gln
        115   120   125

Gly Arg Asn His Val Asp Glu Ser Pro Val Glu Phe Pro Ala Thr Arg

```
     130                    135                    140

Ser Leu Arg Arg Arg Ala Thr Ala Ser Ala Gly Thr Pro Trp Pro Ser
145                 150                 155                 160

Pro Pro Ser Ser Tyr Leu Thr Ile Asp Leu Thr Asp Asp Thr Glu Asp
                165                 170                 175

Thr His Gly Thr Pro Gln Ser Ser Ser Thr Pro Tyr Ala Arg Leu Ala
            180                 185                 190

Gln Asp Ser Gln Gln Gly Gly Met Glu Ser Pro Gln Val Glu Ala Asp
            195                 200                 205

Ser Gly Asp Gly Asp Ser Ser Glu Tyr Gln Asp Gly Lys Glu Phe Gly
        210                 215                 220

Ile Gly Asp Leu Val Trp Gly Lys Ile Lys Gly Phe Ser Trp Trp Pro
225                 230                 235                 240

Ala Met Val Val Ser Trp Lys Ala Thr Ser Lys Arg Gln Ala Met Ser
                245                 250                 255

Gly Met Arg Trp Val Gln Trp Phe Gly Asp Gly Lys Phe Ser Glu Val
            260                 265                 270

Ser Ala Asp Lys Leu Val Ala Leu Gly Leu Phe Ser Gln His Phe Asn
        275                 280                 285

Leu Ala Thr Phe Asn Lys Leu Val Ser Tyr Arg Lys Ala Met Tyr His
        290                 295                 300

Ala Leu Glu Lys Ala Arg Val Arg Ala Gly Lys Thr Phe Pro Ser Ser
305                 310                 315                 320

Pro Gly Asp Ser Leu Glu Asp Gln Leu Lys Pro Met Leu Glu Trp Ala
                325                 330                 335

His Gly Gly Phe Lys Pro Thr Gly Ile Glu Gly Leu Lys Pro Asn Asn
```

```
                340                    345                    350

Thr Gln Pro Val Val Asn Lys Ser Lys Val Arg Arg Ala Gly Ser Arg
        355                    360                    365

Lys Leu Glu Ser Arg Lys Tyr Glu Asn Lys Thr Arg Arg Arg Thr Ala
        370                    375                    380

Asp Asp Ser Ala Thr Ser Asp Tyr Cys Pro Ala Pro Lys Arg Leu Lys
385                    390                    395                    400

Thr Asn Cys Tyr Asn Asn Gly Lys Asp Arg Gly Asp Glu Asp Gln Ser
                405                    410                    415

Arg Glu Gln Met Ala Ser Asp Val Ala Asn Asn Lys Ser Ser Leu Glu
                420                    425                    430

Asp Gly Cys Leu Ser Cys Gly Arg Lys Asn Pro Val Ser Phe His Pro
            435                    440                    445

Leu Phe Glu Gly Gly Leu Cys Gln Thr Cys Arg Asp Arg Phe Leu Glu
        450                    455                    460

Leu Phe Tyr Met Tyr Asp Asp Asp Gly Tyr Gln Ser Tyr Cys Thr Val
465                    470                    475                    480

Cys Cys Glu Gly Arg Glu Leu Leu Leu Cys Ser Asn Thr Ser Cys Cys
                485                    490                    495

Arg Cys Phe Cys Val Glu Cys Leu Glu Val Leu Val Gly Thr Gly Thr
            500                    505                    510

Ala Ala Glu Ala Lys Leu Gln Glu Pro Trp Ser Cys Tyr Met Cys Leu
            515                    520                    525

Pro Gln Arg Cys His Gly Val Leu Arg Arg Arg Lys Asp Trp Asn Val
        530                    535                    540

Arg Leu Gln Ala Phe Phe Thr Ser Asp Thr Gly Leu Glu Tyr Glu Ala
```

545 550 555 560

Pro Lys Leu Tyr Pro Ala Ile Pro Ala Ala Arg Arg Arg Pro Ile Arg
565 570 575

Val Leu Ser Leu Phe Asp Gly Ile Ala Thr Gly Tyr Leu Val Leu Lys
580 585 590

Glu Leu Gly Ile Lys Val Gly Lys Tyr Val Ala Ser Glu Val Cys Glu
595 600 605

Glu Ser Ile Ala Val Gly Thr Val Lys His Glu Gly Asn Ile Lys Tyr
610 615 620

Val Asn Asp Val Arg Asn Ile Thr Lys Lys Asn Ile Glu Glu Trp Gly
625 630 635 640

Pro Phe Asp Leu Val Ile Gly Gly Ser Pro Cys Asn Asp Leu Ser Asn
645 650 655

Val Asn Pro Ala Arg Lys Gly Leu Tyr Glu Gly Thr Gly Arg Leu Phe
660 665 670

Phe Glu Phe Tyr His Leu Leu Asn Tyr Ser Arg Pro Lys Glu Gly Asp
675 680 685

Asp Arg Pro Phe Phe Trp Met Phe Glu Asn Val Val Ala Met Lys Val
690 695 700

Gly Asp Lys Arg Asp Ile Ser Arg Phe Leu Glu Cys Asn Pro Val Met
705 710 715 720

Ile Asp Ala Ile Lys Val Ser Ala Ala His Arg Ala Arg Tyr Phe Trp
725 730 735

Gly Asn Leu Pro Gly Met Asn Arg Pro Val Ile Ala Ser Lys Asn Asp
740 745 750

Lys Leu Glu Leu Gln Asp Cys Leu Glu Tyr Asn Arg Ile Ala Lys Leu

<pre>
           755   760   765

   Lys Lys Val Gln Thr Ile Thr Thr Lys Ser Asn Ser Ile Lys Gln Gly
       770   775   780

   Lys Asn Gln Leu Phe Pro Val Val Met Asn Gly Lys Glu Asp Val Leu
   785   790   795   800

   Trp Cys Thr Glu Leu Glu Arg Ile Phe Gly Phe Pro Val His Tyr Thr
                    805   810   815

   Asp Val Ser Asn Met Gly Arg Gly Ala Arg Gln Lys Leu Leu Gly Arg
                    820   825   830

   Ser Trp Ser Val Pro Val Ile Arg His Leu Phe Ala Pro Leu Lys Asp
           835   840   845

   Tyr Phe Ala Cys Glu
       850
</pre>

<210> 9
<211> 393
<212> DNA
<213> Mus musculus

<400> 9
<pre>
tttctacagt atttcaggtg cctaccacac aggaaacctt gaagaaaacc agtttctaga 60
agccgctgtt acctcttgtt tacagtttat atatatatga tagatatgag atatatatat 120
ataaaaggta ctgttaacta ctgtacatcc cgacttcata atggtgcttt caaaacagcg 180
agatgagcaa agacatcagc ttccgcctgg ccctcgtgtg caaatggcgt ttcatgccca 240
tggatggtgt agaggggagc agctggaggg ggtttcacaa actgaaggat gacccatatc 300
acccccccacc cctgccccat gcctagcttc acctgccaaa aagggctca gctgaggtgg 360
tcggaccctg gggaagctga gtgtggaatt tat   393
</pre>

<210> 10
<211> 424
<212> DNA
<213> Mus musculus

<400> 10

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gaagaaaacc agtttctaga agccgctgtt acctcttgtt tacagtttat atatatatga 60
tagatatgag atatatatat ataaaaggta ctgttaacta ctgtacatcc cgacttcata 120
atggtgcttt caaaacagcg agatgagcaa agacatcagc ttccgcctgg ccctctgtgc 180
aaagggtttc agcccaggat ggtgagaggg gagcatctgg agggggtttt aacaaactga 240
aggatgaccc atatcacccc ccacccctgc cccatgccta gcttcacctg ccaaaaaggg 300
gctcagctga ggtggtcgga ccctggggaa gctgagtgtg gaatttatcc agactcgcgt 360
gcaataacct tagaatatga atctaaaatg actgcctcag aaaaatggct tgagaaaaca 420
ttgt                                                             424
```

<210> 11
<211> 461
<212> DNA
<213> Mus musculus

<400> 11

```
tttaaagcaa accacagagg aggaaaacgc cggaggcttg gccttgcaaa agggttggac 60
atcatctcct gagttttcaa tgttaacctt cagtcctatc taaaaagcaa aataggcccc 120
tcccttcgt tcccctccgg tcctaggagg cgaacttttt gttttctact ctttttcaga 180
ggggttttct gtttgtttgg gttttttgttt cttgctgtga ctgaaacaag agagttattg 240
cagcaaaatc agtaacaaca aaaagtagaa atgccttgga gcggaaaggg agagagggaa 300
aattctataa aaacttaaaa tattggtttt tttttttttc cttttctata tatctctttg 360
gttgtctcta gcctgatcag ataggagcac aaacaggaag agaatagaga ccctcggagg 420
cagagtctcc tctcccaccc cccgagcagt ctcaacagca c                    461
```

<210> 12
<211> 465
<212> DNA
<213> Mus musculus

<400> 12

```
tcagaggggt tttctgtttg tttgggtttt tgtttcttgc tgtgactgaa acaagagagt 60
tattgcagca aaatcagtaa caacaaaaag tagaaatgcc ttggagagga aagggagaga 120
gggaaaattc tataaaaact taaaatattg gttttttttt ttttccttt tctatatatc 180
tctttggttg tctctagcct gatcagatag gagcacaaac aggaagagaa tagagaccct 240
cggaggcaga gtctcctctc ccacccccg agcagtctca acagcaccat tcctggtcat 300
gcaaaacaga acccaactag cagcagggcg ctgagagaac accacaccag acacttttct 360
acagtatttc aggtgcctac cacacaggaa accttgaaga aaaccagttt ctagaagccg 420
```

```
ctgttacctc ttgtttacag tttatatata tatgatagat atgag                    465
```

<210> 13
<211> 393
<212> DNA
<213> Mus musculus

<400> 13

```
aaaacgccgg aggcctttgc cttgcacaag ggttggacat catctcctga gttttcaatg 60
ttaaccttca gtcctatcta aaaagcaaaa taggcccctc cccttcttcc cctccggtcc 120
taggaggcga actttttgtt ttctactctt tttcagaggg gttttctgtt tgtttgggtt 180
tttgtttctt gctgtgactg aaacaagaga gttattgcag caaaatcagt aacaacaaaa 240
agtagaaatg ccttggagag gaaagggaga gagggaaaat tctataaaaa cttaaaatat 300
tggttttttt ttttttcctt ttctatatat cgctttggtt gtctctagcc tgatcagata 360
ggagcacaaa caggaagaga atagagaccc tcg                                  393
```

<210> 14
<211> 309
<212> DNA
<213> Mus musculus

<400> 14

```
gtgatgattg acgccaaaga agtgtctgct gcacacaggg cccgttactt ctaggggtaa 60
ccttcctggc atgaacaggc ctttggatcc actgtgaatg ataagctgga gctgcaagag 120
tgtctggagc acggcagaat agccaagttc agcaaagtga ggaccattac caccaggtca 180
aactctataa agcagggcaa agaccagcat ttccccgtct tcatgaacga gaaggaggac 240
atcctgtggt gcactgaaat ggaaagggtc tttggcttcc ccgtccacta cacagacgtc 300
tccaacatg                                                             309
```

<210> 15
<211> 341
<212> DNA
<213> Mus musculus

<400> 15

```
tgttaacctt cagtcctatc taaaaagcaa aataggcccc tcccttctt cccctccggt 60
cctaggaggc gaactttttg ttttctactc tttttcagag gggttttctg ttgtttggg 120
tttttgtttc ttgctgtgac tgaaacaaga gagttattgc agcaaaatca gtaacaacaa 180
aaagtagaaa tgccttggag aggaaaggga gagagggaaa attctataaa aacttaaaat 240
```

```
attggtttt tttttttcc ttttctatat atctctttgg ttgtctctag cctgatcaga 300
taggagcaca aacaggaaga gaatagagac cctcggaggc a            341
```

<210> 16
<211> 240
<212> DNA
<213> Mus musculus

<220>
<221> Unsure
<222> (32)..(32)
<223> May be any nucleic acid

<400> 16
```
acattttgta tgtttttta tttgctccag gngggggttaa tggcgggtca ctttccctca 60
ctctggaata tttctgatcc cacaaggggc cttcaacgtg gctgacgaat tcaaaatcag 120
ggacaatgtt ttctcaagcc attttctga ggcagtcatt ttagattcat attctaaggt 180
tattgcacgc gagtctggat aaattccaca ctcagcttcc ccagggtccg accacctcag 240
```

<210> 17
<211> 256
<212> DNA
<213> Mus musculus

<220>
<221> Unsure
<222> (75)..(75)
<223> May be any nucleic acid

<400> 17
```
atcagcttcc gcctggccct ctgtgcaaag ggtttcagcc caggatgggg agaggggagc 60
agctggaggg ggttntaaca aactgaagga tgacccatat caccccccac ccctgcccca 120
tgcctagctt cacctgccaa aaaggggctc agctgaggtg gtcggaccct ggggaagctg 180
agtgtggaat ttatccagac tcgcgtgcaa taaccttaga atatgaatct aaaatgactg 240
cctcagaaaa atggct                                       256
```

<210> 18
<211> 435
<212> DNA
<213> Mus musculus

<400> 18

```
gtggaagccc atgcaatgat ctctctaacg tcaatcctgc ccgcaaaggt ttatatgagg 60
gcacaggaag gctcttcttc gagttttacc acttgctgaa ttatacccgc cccaaggagg 120
gcgacaaccg tccattcttc tggatgttcg agaatgttgt ggccatgaaa gtgaatgaca 180
agaaagacat ctcaagattc ctggcatgta acccagtgat gatcgatgcc atcaaggtgt 240
ctgctgctca cagggcccgg tacttctggg gtaacctacc cggaatgaac aggcccgtga 300
tggcttcaaa gaatgataag ctcgagctgc aggactgcct ggagttcagt aggacagcaa 360
agttaaagaa agtgcagaca ataaccacca agtcgaactc catcagacag gcaaaaacc 420
agcttttccc tgtag                                                 435
```

```
<210> 19
<211> 522
<212> DNA
<213> Mus musculus
```

```
<400> 19
gatgatgtca gcagggatga catcaccacc tttagggctt ttccctggca ggggcccatg 60
tggctagtcc tcacgaagac tggagtagaa tgtttggagc tcaggaaggg tgggtggagt 120
ggagtctctt ccaggtgtga gggatacgaa ggaggaagct tagggaaatc cattccccac 180
tccctcttgc caaatgaggg gcccagtccc caacagctca ggtccccaga accccctagt 240
tcctcatgag aagctaggac cagaagcaca tcgttcccct tatctgagca gtgtttgggg 300
aactacagtg aaaaccttct ggagatgtta aaagcttttt accccacgat agattgtgtt 360
tttaaggggt gctttttta ggggcatcac tggagataag aaagctgcat ttcagaaatg 420
ccatcgtaat ggttttaaa cacctttta ctaattacag gtgctatttt atagaagcag 480
acaacacttc tttttatgac tctcagactt ctattttcat gt                  522
```

```
<210> 20
<211> 348
<212> DNA
<213> Mus musculus
```

```
<400> 20
aaaggaggcc cattagagtc ctgtctctgt ttgatggaat tgcaacgggg tacttggtgc 60
tcaaggagtt gggtattaaa gtggaaaagt acattgcctc cgaagtctgt gcagagtcca 120
tcgctgtggg aactgttaag catgaaggcc agatcaaata tgtcaatgac gtccggaaaa 180
tcaccaagaa aaatattgaa gagtggggcc cgttcgactt ggtgattggt ggaagcccat 240
gcaatgatct ctctaacgtc aatcctgccc gcaaaggttt atatgagggc acaggaaggc 300
tcttcttcga gttttaccac ttgctgaatt atacccgccc caaggagg            348
```

```
<210> 21
```

<211> 258

<212> DNA

<213> Mus musculus

<400> 21

```
gtttatggtt taagtcttcc tggcaccttc cccttgcttt ggtacaaggg ctgaagtcct 60
gttggtcttg tagcatttcc caggatgatg atgtcagcag ggatgacatc atcacctta 120
gggcttttcc ctggcagggg cccatgtggc tagtcctcac gaagactgga gtagaatgtt 180
tggagctcag gaagggtggg tggagtgtgc ctcttccagg tgtgagggat acgaaggagg 240
aagcttaggg aaatccat                                               258
```

<210> 22

<211> 334

<212> DNA

<213> Mus musculus

<400> 22

```
tggggtaacc tacccggaat gaacagttaa agaaagtgca gacaataacc accaagtcga 60
actccatcag acagggcaaa aaccagcttt tccctgtagt catgaatggc aaggacgacg 120
ttttgtggtg cactgagctc gaaaggatct tcggcttccc tgctcactac acggacgtgt 180
ccaacatggg ccgcggcgcc cgtcagaagc tgctgggcag gtcctggagt gtaccggtca 240
tcagacacct gtttgccccc ttgaaggact actttgcctg tgaatagttc tacccaggac 300
tggggagctc tcggtcagag ccagtgccca gagt                             334
```

<210> 23

<211> 299

<212> DNA

<213> Mus musculus

<220>
<221> Unsure
<222> (59)..(59)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (173)..(173)
<223> May be any nucleic acid

<400> 23

```
ctgtttttgt ttgttttttt ggtatcttag ccatcacttc tgagtgataa actcaggang 60
```

```
gtaaaagaaa gccatcttac tacctacttc aagtttttaaa gtttcagggt aagagaacat 120
gagcaccatg ccgggctact ctaagcagcc aggtctgagc tgtgcacacg ganggagcac 180
cggggctccc ctgcaaggcc aggaggctct gctcccactg agcaggagaa agctgaggta 240
cagtgatgtg aggccccaca caggtgagct aaaaagggga caggtgaggt gccttcagg  299
```

<210> 24
<211> 455
<212> DNA
<213> Mus musculus

<400> 24

```
gatcgcttcc tagagctctt ctacatgtat gatgaggacg gctatcagtc ctactgcacc 60
gtgtctgtga gggccgtgaa ctgctgctgt gcagtaacac aagctgctgc agatgcttct 120
gtgtggagtg tctggaggtg ctggtgggcg caggacagct gaggatgcca agctgcagga 180
accctggagc tgctatatgt gcctccctca gcgctgccat ggggtcctcc gacgcaggaa 240
agattggaac atgcgcctgc aagacttctt cactactgat cctgacctgg aagaatttca 300
ggagccaccc aagttgtacc cagcaattcc tgcagccaaa aggaggccca ttagagtcct 360
gtctctgttt gatggaattg caacggggta cttggtgctc aaggagttgg gtattaaagt 420
ggaaaagtac attgcctccg aagtctgtgc agagt                           455
```

<210> 25
<211> 368
<212> DNA
<213> Homo sapiens

<220>
<221> Unsure
<222> (307)..(307)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (335)..(335)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (353)..(353)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (360)..(360)
<223> May be any nucleic acid

<400> 25

acgttttgta tgtttttta tttgctccag gtggggtttt gactgtcact ttcccacact 60
ctggattagt tctgatccca ccacaaggag ccctcgaatt ggctaaagtg agaaactggg 120
cctgaagact ccgtaccctc tgccatcttg ccgagggagt ctcctttag aaaacaatca 180
aagggttatt gcatgagtct ggatgaatcc cactctcagc ttgtccacgg gcccgaccac 240
ctcatctagc cccctttttg gcaagggaga acctggctcc caagttctcc tccttcactt 300
tcgttancaa accaaggggg aagaagccca ccgtngagaa cgcgccatct tgnaaagctn 360
ggtcttcc   368

<210> 26
<211> 399
<212> DNA
<213> Homo sapiens

<220>
<221> Unsure
<222> (87)..(87)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (314)..(314)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (318)..(318)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (370)..(370)
<223> May be any nucleic acid

<400> 26

gaacatgagg atggagagaa gtatcagcac ccagaagaga aaaggaatt taaaacaaaa 60
accacagagg cggaaatacc ggaggcnttt gcttgcgaaa agggttggac atcatctcct 120
gattttcaa tgttattctt cagtcctatt taaaaacaaa accaagctcc cttcccttcc 180
tccccttcc ctttttttc ggtcagacct tttatttct actcttttca gaggggtttt 240
ctgtttgttt gggtttttgtt tcttgctgtg actgaaacaa gaaggttatt gcagcaaaaa 300
tcaggtaaca aaanatangt aacaatacct tgcagaggaa aggtgggagg agaggaaaaa 360
agggaaattn ctatagaaat ctatatattg gggttggtt   399

<210> 27
<211> 318

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (205)..(205)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (275)..(275)
<223> May be any nucleic acid

<400> 27

```
gtacgaggtg cggcagaagt gccggaacat tgaggacatc tgcatctcct gtgggagcct 60
caatgttacc ctggaacacc ccctcttcgt tggaggaatg tgccaaaact gcaagaactg 120
ctttctggag tgtgcgtacc agtacgacga cgacggctac cagtcctact gcaccatctg 180
ctgtgggggc cgtgaggtgc tcatntgcgg aaacaacaac tgctgcaggt gcttttgcgt 240
ggagtgtgtg gacctcttgg tggggccggg ggctncccag gcagcagtta aggaagatca 300
tgtacgtcgg ggacgtcc                                               318
```

<210> 28

<211> 259

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (227)..(227)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (234)..(234)
<223> May be any nucleic acid

<400> 28

```
gagccgagca gctgaaggca cccgctgggt catgtggttc ggagacggca aattctcagt 60
ggtgtgtgtt gagaagctga tgccgctgag ctcgttttgc agtgcgttcc accaggccac 120
gtacaacaag cagcccatgt accgcaaagc catctacgag gtcctgcagg tggccagcag 180
ccgcgcgggg aagctgttcc cggtgtgcca cgacagcgat gagagtnaca ctgncaaggc 240
cgtgggaggt gcagaacaa                                              259
```

<210> 29

<211> 483

<212> DNA

<213> Homo sapiens

<400> 29

```
tttttttttt ttgtatgttt ttttatttgc tccaggtggg gttttgactg tcactttccc 60
acactctgga ttagttctga tcccaccaca aggagccctc gaattggcta aagtgagaaa 120
ctgggcctga agactccgta ccctctgcca tcttgccgag ggagtctcct tttagaaaac 180
aatcaaaggg ttattgcatg agtctggatg aatcccactc tcagctgtcc acggggccga 240
ccacctcatc taggcccctt tttggcaagg agaaccgggg tcccaagttc tcctccttca 300
cttcgttaca aaccaggggg aaaaagccca cgtgaaaacg cggcatctgc aaaatggttc 360
cctttcttca tccctgggga aaccctttgcg ccaaggcaac gtggaaactg atggttttac 420
tcaactcgct gttttgaagc gccattatga aatcggggtt gtacgtaggt aaagtcccgt 480
gcc                                                              483
```

<210> 30

<211> 337

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (41)..(41)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (45)..(45)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (176)..(176)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (190)..(190)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (207)..(207)
<223> May be any nucleic acid

<220>
<221> Unsure

<220>
<221> Unsure
<222> (265)..(265)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (290)..(290)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (317)..(317)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (322)..(322)
<223> May be any nucleic acid

<400> 30

```
gggcattcag gtggaccgct acattgcctc ggaggtgtgt naggnctcca tcacggtggg  60
catggtgcgg caccagggga agatcatgta cgtcggggac gtccgcagcg tcacacagaa  120
gcatatccag gagtggggcc cattcgatct ggtgattggg ggcagtccct gcaatnacct  180
ctccatcgtn aaccctgctc gcaaggncct ctacgagggc actggccggc tcttctttaa  240
gttctaccgc ctcctgcatg atgcncggcc caaggagggg agatgatcgn cccttcttct  300
ggctctttaa gaatgtngtg gnccatgggc gtttagt                           337
```

<210> 31

<211> 271

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (234)..(234)
<223> May be any nucleic acid

<400> 31

```
cttgtttaca gtttatatat atatgataga tatgagatat atatataaaa ggtactgtta  60
actactgtac aacccgactt cataatggtg ctttcaaaca gcgagatgag taaaaacatc  120
agcttccacg ttgccttctg cgcaaagggt ttcaccaagg atggagaaag ggagacagct  180
tgcagatggc gcgttctcac ggtgggctct tccccttggt ttgtaacgaa gtgnaggagg  240
agaacttggg agccaggttc tccctgccaa a                                 271
```

<210> 32

<211> 430

<212> DNA
<213> Homo sapiens

<400> 32

```
acgttttgta tgtttttta tttgctccag gtggggtttt gactgtcact ttcccacact 60
ctggattagt tctgatccca ccacaaggag ccctcgaatt ggctaaagtg agaaactggg 120
cctgaagact ccgtaccctc tgccatcttg ccgagggagt ctcctttaga aaacaatcaa 180
agggttattg catgagtctg gatgaatccc actctcagct gtccacgggc ccgaccacct 240
catctagccc ccttttttggc agggagaacc tggctcccaa gttctcctcc ttcacttcgt 300
tacaaaccaa ggggaagagc ccaccgtgag aacgcgccat ctgcaagctg tctccctttc 360
tccatccttg gtgaaacccc tttgcgcaga aggcaacgtg gaagctgatg tttttactca 420
tctcgctgtt                                                         430
```

<210> 33
<211> 483
<212> DNA
<213> Homo sapiens

<400> 33

```
ttttttttt ttgtatgttt ttttatttgc tccaggtggg gttttgactg tcactttccc 60
acactctgga ttagttctga tcccaccaca aggagccctc gaattggcta aagtgagaaa 120
ctgggcctga agactccgta ccctctgcca tcttgccgag ggagtctcct tttagaaaac 180
aatcaaaggg ttattgcatg agtctggatg aatcccactc tcagctgtcc acggggccga 240
ccacctcatc taggcccctt tttggcaagg agaacccggg tcccaagttc tcctccttca 300
cttcgttaca aaccaggggg aaaaagccca cgtgaaaacg cggcatctgc aaaatggttc 360
cctttcttca tccctgggga aacctttgcg ccaaggcaac gtggaaactg atggttttac 420
tcaactcgct gttttgaagc gccattatga aatcggggtt gtacgtaggt aaagtcccgt 480
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<210> 34
<211> 411
<212> DNA
<213> Homo sapiens

<400> 34

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tcccacactc tggattagtt ctgatcccac cacaaggagc cctcgaattg gctaaagtga 120
gaaactgggc ctgaagactc cgtaccctct gccatcttgc cgagggagtc tcctttaga 180
aaacaatcaa agggttattg catgagtctg gatgaatccc actctcagct gtccacgggc 240
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ccgaccacct catctagccc cctttttggca gggagaacct ggctcccaag ttctcctcct 300
tcacttcgtt acaaaccaag gggaagagcc caccgtgaga acgcgccatc tgcaagctgt 360
ctccctttct ccatccttgg tgaaacccett tgcgcagaag gcaacgtgga a          411
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<210> 35
<211> 530
<212> DNA
<213> Homo sapiens

<400> 35

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cgcctggacg agcccagact gctgggccgg tcatggagcg cgccagtcat ccgccacctc 60
ttcgctccgc tgaaggcgta ttttgcgtgt gtctaaggga catggggggca aactgaggta 120
gcgacacaaa gttaaacaca caaacacccc acacacaaca taatacaaca ccaagaacat 180
gaggatggag agaagtatca gccacccaga agagaacaag gaatttaaaa ccaaaaccac 240
agaggcggaa ataccggagg actttgcctt gcgaccaggg ttggacatca tctcctgatt 300
tttcaatgtt attcttcagt cctatttaaa aacaaaacca agctcccttc ccttcctgcg 360
gcttcccttt tttttcggtc agacctttta ttttctactc ttttcagagg ggtttttctgt 420
ttgtttgggt tttgtttctt gctgtgactg aaacaagaag gttattgcag caaaaatcag 480
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<210> 36
<211> 535
<212> DNA
<213> Homo sapiens

<400> 36

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actctggatt agttctgatc ccaccacaag gagccctcga attggctaaa gtgagaaact 120
gggcctgaag actccgtacc ctctgccatc ttgccgaggg agtctccttt tagaaaacaa 180
tcaaagggtt attgcatgag tctggatgaa tcccactctc agctgtccac gggcccgacc 240
acctcatcta gcccccttt tggcagggag aacctggctc ccaagttctc ctccttcact 300
tcgttacaaa ccacggggaa gagcccaccg tgagaacgcg ccatctgcaa gctgtctccc 360
tttctccatc cttggtgaaa cccttttgcgc agaaggcaac gtggaagctg atgttttttac 420
tcatctcgct gtttgaaagc accattatga agtcgggttg tacagtagtt aacagtacct 480
tttatatata tatctcatat ctatcatata tatataaact gtaaacaaga ggtaa      535
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<210> 37
<211> 428
<212> DNA

<213> Homo sapiens

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<222> (415)..(415)
<223> May be any nucleic acid

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<223> May be any nucleic acid

<400> 37
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cctgaagact ccgtaccctc tgccatcttg ccgagggagt ctcctttag aaaacaatca 180
aagggttatt gcatgagtct ggatgaatcc cactctcagc tgtccacggg cccgaccacc 240
tcatctagcc cccttttttgg caggagaac ctgggctccc aagttctcct ccttcacttc 300
gttacaaacc aaggggaagg agcccaccgt gagaacggcg ccatcttgca agctgtctcc 360
ctttctccat ccttgggtga aacccttttg cgcagaaggg caacgtggga agctngatgt 420
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<210> 38

<211> 419

<212> DNA

<213> Homo sapiens

<220>
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<222> (306)..(306)
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<223> May be any nucleic acid

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<222> (367)..(367)
<223> May be any nucleic acid

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<223> May be any nucleic acid

<400> 38

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atgaacaggc cgttggatcc actgtgaatg ataagctgga gctgcaggag tgtctggagc 180
atggcaggat agccaagttc agcaaagtga ggaccattac tacgaggtca aactccataa 240
agcagggcaa agaccagcat tttcctgtct tcatgaatga gaaagaggac atcttatggt 300
gcactnaaat tggaaagggt atttngggtt tcccagtcca ntatactgac gtctccaaca 360
tgagccnctt tgggagggca gagantgctg gggccggttc atgggagcgt gcccagttc 419
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<210> 39

<211> 437

<212> DNA

<213> Homo sapiens

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<223> May be any nucleic acid

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<223> May be any nucleic acid

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cactcaggcg gcacanttcc ctcccagcca ctgagctgtc gtgccagcac cattcctggt 120
cacgcaaaac agaacccagt tagcagcagg gagacgagaa caccacacaa gacattttc 180
tacagtattt caggtgccta ccacacagga aaccttgaag aaantcagtt tctaggaagc 240
cgctgttacc tcttgtttac agtttatata tatatgatag atatgagatn tatatataaa 300
aggtactgtt aactactgta caacccgact tcataatggg tgctttcaaa caggcgaggt 360
gngtaaaaac atcagnttcc acgttngcct tttgcgcaaa gggtttcacc aggttgggga 420
aagggngaca gcttttt 437

<210> 40

<211> 385

<212> DNA

<213> Homo sapiens

<220>
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<220>
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<222> (365)..(365)
<223> May be any nucleic acid

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<400> 40

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tctggattag ttctgatccc accacaagga gccctcgaat tggctaaagt gagaaactgg 120

gcctgaagac tccgtaccct ctgccatctt gccgagggag tctccttttta gaaaacaatc 180

aaagggttat tgcatgagtc tggatgaatc ccactctcag ctgtccacgg gcccgaccac 240

ctcatctagc ccccttttttg gcagggagaa cctgggctcc caagttctcc tccttcactt 300

cgttacaaac caaggggaag agcccaccgt gagaacgcgn catctgcaag ctgtctccct 360

ttttncatcc ttggtngaaa ccctt                                       385


<210> 41

<211> 294

<212> DNA

<213> Homo sapiens

<220>
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<222> (73)..(73)
<223> May be any nucleic acid

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<223> May be any nucleic acid


<400> 41

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tttttntttt ttnttttttt tttttgggt tttttttttt tactatatat cttttttttg 120

ttgtctctag cctgatcaga taggagcaca agcaggggac ggaaagagag agacactcag 180

gcggcacatt tgccctccca gccactgagc tgtcgtgcca gcaccattcc tgggtcacgc 240

aaaacagaac ccagttagca gcaggnaga cgagaacacc acacaagaca tttt         294
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<210> 42

<211> 610

<212> DNA

<213> Homo sapiens

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<222> (576)..(576)
<223> May be any nucleic acid

<220>
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<222> (590)..(590)
<223> May be any nucleic acid

<400> 42

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tctggattag ttctgatccc accacaagga gccctcgaat tggctaaagt gagaaactgg 120

gcctgaagac tccgtaccct ctgccatctt gccgagggag tctcctttta gaaaacaatc 180

aaagggttat tgcatgagtc tggatgaatc ccactctcag ctgtccacgg gcccgaccac 240

ctcatctagc cccctttttg gcagggagaa cctggctccc aagttctcct ccttcacttc 300

gttacaaacc aaggggaaga gcccaccgtg agaacgcgcc atctgcaagc tgtctccctt 360

tctccatcct ttggtggaaa ccctttgcg cagaaggcaa cgtggaagct gatgttttta 420

ctcatctcgc tgtttgaaag caccattatg aagtcgggtt gtacagtagt taacagtacc 480

ttttatatat atatctcata tctatcatat atatataaac tggtaaacaa gaggtaacag 540

cgggcttcta gaaactgatt ttcttcaagg tttccngtgt ggtaggcacn tgaaatactg 600

gtagaaaatg                                                       610
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<210> 43

<211> 283

<212> DNA

<213> Homo sapiens

<220>
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<222> (72)..(72)
<223> May be any nucleic acid

<220>
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<222> (272)..(272)
<223> May be any nucleic acid

<400> 43

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tgcctcgcca agcggctcat gttggagacg tcagtatagt ggactgggaa accaaatacc 180
ctttccattt cagtgcacca taagatgtcc tctttctcat tcatgaagac aggaaaaatg 240
ctggtctttg gcctgcttta tggagttttg anctcgtaag taa          283
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<210> 44
<211> 383
<212> DNA
<213> Homo sapiens

<400> 44
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gcggggacgt ccgcagcgtc acacagaagc atatccagga gtggggccca ttcgatctgg 60
tgattggggg cagtccctgc aatgacctct ccatcgtcaa ccctgctcgc aagggcctct 120
acgagggcac tggccggctc ttctttgagt tctaccgcct cctgcatgat gcgcggccca 180
aggagggaga tgatcgcccc ttctctggct ctttgagaat ttggtggcca tggcgttagt 240
acacagagag gacacatctc gcgatttctc gagtccaacc ctgtatatga ttgatgccaa 300
agaagtctca tctgcacaga ggcccctcta cttctggggt cacctccccg tattaacagg 360
ccgtaggatc cactgttatt ata          383
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<210> 45
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> Unsure
<222> (445)..(445)
<223> May be any nucleic acid

<400> 45
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ctggattagt tctgatccca ccacaaggag ccctcgaatt ggctaaagtg agaaactggg 120
cctgaagact ccgtaccctc tgccatcttg ccgagggagt ctcctttag aaaacaatca 180
aagggttatt gcatgagtct ggatgaatcc cactctcagc tgtccacggg cccgaccacc 240
tcatctaagc cccctttttg gcagggagaa cctggctccc aagttctcct ccttcacttc 300
gttacaaacc aaggggaaga gcccaccgtg agaacgcgcc atctgcaagc tgtctccctt 360
tctccatcct tggtgaaacc tttgcgcaga aggcaacgtg gaaagctgaa ggttttact 420
catctcgctg tttgaaaagc accanta          447
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<210> 46
<211> 100
<212> DNA

<213> Homo sapiens

<220>
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<222> (96)..(96)
<223> May be any nucleic acid

<400> 46

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aaacaaaaac cacagaggcg gaaataccgg tgactnttct                       100
```

<210> 47

<211> 150

<212> DNA

<213> Homo sapiens

<400> 47

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tactccttca gcgggtagga ggtggcggat gactggcacg ctccatgacc ggcccagcag 60
tctctgcctc gccaagcgct catgttggag aggtcagtat agtggactgg gaaaccaaat 120
acccttttcca tttcagtgca ccataagatg                                 150
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<210> 48

<211> 237

<212> DNA

<213> Homo sapiens

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<223> May be any nucleic acid

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<222> (42)..(42)
<223> May be any nucleic acid

<220>
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<222> (45)..(45)
<223> May be any nucleic acid

<400> 48

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tgggacaccg atgggcctgc atctgacctg ttgtgctcac tgcttaggac cctccaaagg 120
tttacccacc tgtcccagct gagaagagga agcccatccg ggtgctgtct ctctttgatg 180
```

gaatcgctac aggtgagggg tgcaggccca agaggtgctg gcctcgtgcg aattcct   237

<210> 49

<211> 442

<212> DNA

<213> Homo sapiens

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<223> May be any nucleic acid

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<222> (397)..(397)
<223> May be any nucleic acid

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<400> 49

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gggacggaaa gagagagaca ctcaggcggc natttccctc ccagccactg agctgtcgtg 120

ccagcaccat tcctggncac gcaaaacaga acccagttag cagcagggag acgagaacac 180

cacacaagac atttttctac agtatttcag gtgcctacca cacaggaaac cttgaagaaa 240

atcagtttct aggaagccgc tgttacctct tgtttacagt ttatatatat atggatagga 300

tatgaggata tatatataaa agggtactgt ttaactactg taccaacccg actttcataa 360

tgggtgcttt tcaaacagcc gaggatgngg ttaaaancat cagcttccac gttgccttct 420

gcggcaangg gtttcaccag gg   442

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<211> 395

<212> DNA

<213> Homo sapiens

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gcctgaagac tccgtaccct ctgccatctt gccgagggag tctcctttta gaaaacaatc 180
aaagggttat tgcatgagtc tggatgaatc ccactctcag ctgtccacgg gcccgaccac 240
ctcatctagc cccctttttg ggcagggaga aacctgggct cccaagttct cctccttcac 300
ttcgttaaca aaccaagggg aagagcccac cgtgaggaac ggngccatct ggcaaggttg 360
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<210> 51

<211> 835

<212> DNA

<213> Homo sapiens

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<222> (809)..(809)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (820)..(820)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (827)..(830)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (832)..(832)
<223> May be any nucleic acid

<400> 51

```
cnnnnnnnng nnnnnnttnn nctgcctta tnctcgntgc cgatantnnt atccatcatc 60
annttcttgg tgttnnatta tgttttgtgt tttttgtttg tttgtttaac tttgtgtcgn 120
tacctcagtt tgcccccatn tccctnacac acacgcaaaa tactccttca gcggagcgaa 180
gaggtggcgg atgactggna cgctccatga ccggcccagc agtctctgcc tcgccaagcg 240
gatcatgttg gagacgtcag tatagtggac tgggaaacca aatacccttt ccatttcagn 300
gcaccataag atgtcctctt tctcattcat gaagacaggg aaaatgctgg tctttggcct 360
gctcnatgga gtttgactcc gtagtaangg ccctcanttt ggntgacttg ggctatcctg 420
ncatgctcca gacacttccg nagggtcaca acagaagcat nttccagggg gtggnggcca 480
ttccgacctt tggnggattg gggggggaagc cccnaaaaat aacccttca aacggnnaaa 540
ccctngttcn gaangggccc cnttncgang ggaaactggn ccgnttnttt ctttngggnt 600
tcctccccc cccccnaaa ataatgggng gccccaagna ggggaattac cccccccncn 660
ttnttttttt tttggaaatt tggggggcccg ggggnnaann naaaanggcn acttcnnnnt 720
ttttggnccc ncccnnnant ttnnncccaa aaannttaat taaaaaggcc cttttctggg 780
nccccnttn aaccgccccn ngatnggtnc ttggttcccn aacacannnn cncaa      835
```

<210> 52

<211> 479

<212> DNA

<213> Homo sapiens

```
<220>
<221> Unsure
<222> (364)..(364)
<223> May be any nucleic acid


<220>
<221> Unsure
<222> (416)..(416)
<223> May be any nucleic acid


<220>
<221> Unsure
<222> (464)..(464)
<223> May be any nucleic acid


<400> 52

tacgttttgt atgttttttt atttgctcca ggtggggttt tgactgtcac tttcccacac 60

tctggattag ttctgatccc accacaagga gccctcgaat tggctaaagt gagaaactgg 120

gcctgaagac tccgtaccct ctgccatctt gccgagggag tctcctttta gaaaacaatc 180

aaagggttat tgcatgagtc tggatgaatc ccactctcag ctgtccacgg gcccgaccac 240

ctcatctagc cccctttttg gcagggagaa cctggctccc aagttctcct ccttcacttc 300

gttacaaacc aaggggaaga gcccaccatg agaacgcgcc atctgcaagc tgtctccctt 360

tctncatcct tggtgaaacc tttgcgcaga aggcaacgtg gaagctgatg tttttntcat 420

ctcgctgttt gaaagcacca ttatgaagtc gggttgtaca gtantaacag tacttttag 479


<210> 53

<211> 521

<212> DNA

<213> Homo sapiens


<220>
<221> Unsure
<222> (327)..(327)
<223> May be any nucleic acid


<220>
<221> Unsure
<222> (507)..(507)
<223> May be any nucleic acid


<400> 53

agaacaccac acaagacatt tttctacagt atttcaggtg cctaccacac aggaaacctt 60

gaagaaaatc agtttctaga agccgctgtt acctcttgtt tacagtttat atatatatga 120

tagatatgag atatatatat aaaaggtact gttaactact gtacaacccg acttcataat 180
```

```
ggtgctttca aacagcgaga tgagtaaaaa catcagcttc cacgttgcct tctgcgcaaa 240

gggtttcacc aaggatggag aaagggagac agcttgcaga tggcgcgttc tcatggtggg 300

ctcttcccct tggtttgtaa cgaagtntag gaggagaact tgggagccag gttctccctg 360

ccaaaaaggg ggctagatga ggtggtcggg cccgtggaca gctgagagtg ggattcatcc 420

agactcatgc aataacccrt tgattgtttc taaaaggaga ctccctcggc aagatggcag 480

agggtacgga gtcttcaggc ccagttntca ctttagccaa t                   521
```

<210> 54
<211> 440
<212> DNA
<213> Homo sapiens

<400> 54

```
ctctctttga tggaatcgct acagggctcc tggtgctgaa ggacttgggc attcaggtgg 60

accgctacat tgcctcggag gtgtgtgagg actccatcac ggtgggcatg gtgcggcacc 120

aggggaagat catgtacgtc ggggacgtcc gcagcgtcac acagaagcat atccaggagt 180

ggggcccatt cgatctggtg attgggggca gtccctgcaa tgacctctcc atcgtcaacc 240

ctgctcgcaa gggcctctac gagggcactg gccggctctt ctttgagttc taccgcctcc 300

tgcatgatgc gcggcccaag gagggagatg atcgcccctt cttctggctc tttgagaatg 360

tggtggccat gggcgtttag tgacaagagg gacatctcgc gatttctcga gtccaaccct 420

gtgatgattg atgccaaaga                                           440
```

<210> 55
<211> 273
<212> DNA
<213> Homo sapiens

<400> 55

```
acgttttgta tgtttttta tttgctccag gtggggtttt gactgtcact ttcccacact 60

ctggattagt tctgatccca ccacaaggag ccctcgaatt ggctaaagtg agaaactggg 120

cctgaagact ccgtaccctc tgccatcttg ccgagggagt ctccttttag aaaacaatca 180

aagggttatt gcatgagtct ggatgaatcc cactctcagc tgtccacggg cccgaccacc 240

tcatctagcc cccttttttgg cagggagaac ctg                           273
```

<210> 56
<211> 190
<212> DNA
<213> Homo sapiens

<220>
<221> Unsure
<222> (39)..(39)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (83)..(83)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (181)..(181)
<223> May be any nucleic acid

<400> 56

```
aaaaacacaa aacataataa aacaccaaga acatgaggnt ggagagaagt atcagcaccc 60
agaagagaaa aaggaattta aancaaaaac cacagaggcg gaaataccgg agggctttgc 120
cttgcgaaaa gggttggaca tcatctcctg atttttcaat gttattcttc agtcctattt 180
naaaacaaag                                                        190
```

<210> 57

<211> 445

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (167)..(167)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (353)..(353)
<223> May be any nucleic acid

<400> 57

```
ttagacaaat actgattta attaaacata aggtaaactc taggcatccg tcatctttca 60
gcctaaaaat tagcaaaaac tgttgaaaca aggcacagtt ttttccccat atttgttacg 120
tcgtggctcc agttacaaaa aaattttaat gaaaacgtta aacatanaaa tagaagtttg 180
agattttaaa aagtgtataa aaagccccac aaaacttgtc aacggttgtt ccttattcta 240
caaaatagca ccagtaagaa gagtaaaagg tgttaaaaac catttatgac agcatttctg 300
aaatgcagct tgtctgaatt cccggttctc cctaaaaacg acttctttat ggnattaaaa 360
aagggtttaa aaaaatctcc aaaggggagc accgagcttt gcaggttttc cctgtcatct 420
ctcagatgtg ggggaagctc gtggc                                       445
```

<210> 58

<211> 287

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (38)..(38)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (171)..(171)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (204)..(204)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (274)..(274)
<223> May be any nucleic acid

<400> 58
ttccccacat ctgagagatg acagggaaaa ctgcaaanct cggtgctccc tttggagatt 60
ttttaatcct tttttattcc ataagaagtc gttttttaggg agaacgggaa ttcagacaag 120
ctgcatttca gaaatgctgt cataatggtt tttaacacct tttactcctc nttactggtg 180
ctatttttgt agaataaggg aacnacgttg acaagttttg gtggggcct ttttatacac 240
cttttttaaa atctccaact tcctaatttt taanggttta accgttt 287

<210> 59

<211> 535

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (452)..(452)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (526)..(526)
<223> May be any nucleic acid

<400> 59

```
tagacaaata ctgattttaa ttaaacataa ggtaaactct aggcatccgt catctttcag 60
cctaaaaatt agcaaaaact gttgaaacaa ggcacagttt tttccccata tttgttacgt 120
cgtggctcca gttacaaaaa aattttaatg aaaacgttaa acataaaaat agaagtttga 180
gattttaaaa agtgtataaa aagccccaca aaacttgtca acgttgttcc ttattctaca 240
aaatagcacc agtaagaaga gtaaaaggtg ttaaaaacca ttatgacagc atttctgaaa 300
tgcagcttgt ctgaattccc gttctcccta aaaacgactt cttatggaat aaaaaaggat 360
taaaaaatct ccaaagggag caccgagctt tgcagttttc cctgtccgtc tctcagatgt 420
ggggaaggta tgagaaatgt atgtctgtcc cngactgctg tcactgcctc tgagttagta 480
aaaggtgaga atgagggtag cagcttccca tctggggcct gtgccngtgg agggt      535
```

<210> 60
<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> Unsure
<222> (7)..(7)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (200)..(200)
<223> May be any nucleic acid

<400> 60

```
atcgcancag gctacctagt cctcaaagag ttgggcataa aggtaggaaa gtacgtcgct 60
tctgaagtgt gtgaggagtc cattgctgtt ggaaccgtga agcacgaggg gaatatcaaa 120
tacgtgaacg acgtgaggaa catcacaaag aaaaatattg aagaatgggg cccatttgac 180
ttggtgattg gcggaaccan tgcaacgatc tctcaaatgt gaatccagcc aggaaaggcc 240
tgtatgaggg tacaggccgg ctcttcttcg aattttacca cctgctgaat tactcacgcc 300
ccaaggaggg tgatgaccgg ccgttcttct ggatgtttga gaatgttgta gccatgaagg 360
ttggcgacaa gagggacatc tcacggttcc tggagtgtaa tccagtgatg attgatgcca 420
tccaaagttt ctgctgctca cagggcccg                                   449
```

<210> 61
<211> 522
<212> DNA
<213> Homo sapiens

<220>
<221> Unsure
<222> (146)..(146)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (281)..(281)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (304)..(304)
<223> May be any nucleic acid

<400> 61

```
aagagggaca tctcacggtt cctggagtgt aatccagtga tgattgatgc catcaaagtt 60
tctgctgctc acagggcccg atacttctgg ggcaacctac ccgggatgaa caggcccgtg 120
atagcatcaa agaatgataa actcgngctg caggactgct tggaatacaa taggatagcc 180
aagttaaaga aagtacagac aataaccacc aagtcgaact cgatcaaaca ggggaaaaac 240
caacttttcc ctgttgtcat gaatggcaaa gaagatgttt ngtggtgcac tgagctcgaa 300
aggntctttg gctttcctgt gcactacaca gacgtgtcca acatgggccg tggtgcccgc 360
cagaagctgc tgggaaggtc ctggagcgtg cctgtcatcc gacacctctt cgcccctctg 420
aaggactact ttgcatgtga atagttccag ccagggccca agcccactgg ggtgtgtggc 480
agagcaggac ccaggaggtg tgattctgaa ggcatcccca gg                     522
```

<210> 62

<211> 573

<212> DNA

<213> Homo sapiens

<400> 62

```
ctaagatcca ttttctaaac tccaattgag cattctctgt atctgggtgg tttttacttt 60
tttacttaat cttgcttgat caggaactct ggtgtcttct tggcccccca cgtgatctcg 120
ttcatggtca cttttttgtt tatctcattt tctctgaggc tggtccttcc tgttaacgtc 180
ttggcatttg tgggaagcac aaaatgttct tgtccctcca actctgcttt tcgctccctg 240
ccctgccatt cctctcccgc gcctgccctc tcccttccat ctttcccagg tacttttctc 300
tcccagccct gccactcttc tgccgcacct gcgctctccc ctccatcttt cccaggtact 360
tttgagcctt gactccccag gtcccttcat tctgtgctca ctccatgatg tcattttgtt 420
ctccagttaa agaaagtaca gacaataacc accaagtcga actcgatcaa acagggggaaa 480
aaccaacttt tccctgttgt catgaatggc aaagaagatg ttttgtggtg cactgagctc 540
gaaaggatct ttggctttcc tgtgcactac aca                               573
```

<210> 63
<211> 559
<212> DNA
<213> Homo sapiens

<400> 63

```
agacaaatac tgattttaat taaacataag gtaaactcta ggcatccgtc atctttcagc  60
ctaaaaatta gcaaaaactg ttgaaacaag gcacagtttt ttccccatat ttgttacgtc 120
gtggctccag ttacaaaaaa attttaatga aaacgttaaa cataaaaata gaagtttgag 180
attttaaaaa gtgtataaaa agccccacaa aacttgtcaa cgttgttcct tattctacaa 240
aatagcacca gtaagaagag taaaaggtgt taaaaaccat tatgacagca tttctgaaat 300
gcagcttgtc tgaattcccg ttctccctaa aaacgacttc ttatggaata aaaaaggatt 360
aaaaaatctc caaagggagc accgagcttt gcagttttcc ctgtcatcta tcagatgtgg 420
ggaaggtatg agaaatgtat gtctgtccct gactgctgtc actgcctctg agtttagtaa 480
aaagatgaga aatgagggta gcagacttct catctgggga cctgtgcctg tggagggtag 540
gtctcctgga gagggaatg                                               559
```

<210> 64
<211> 391
<212> DNA
<213> Homo sapiens

<400> 64

```
tttttttta gacaaatact gattttaatt aaacataagg taaactctag gcatccgtca  60
tctttcagcc taaaaattag caaaaactgt tgaaacaagg cacagttttt tccccatatt 120
tgttacgtcg tggctccagt tacaaaaaaa attttaatga aaacgttaaa cataaaaata 180
gaagtttgag attttaaaaa gtgtataaaa agccccacaa aacttgtcaa cgttgttcct 240
tattctacaa aatagcacca gtaagaagag taaaaggtgt taaaaaccat tatgacagca 300
tttctgaaat gcagcttgtc tgaattcccg ttctccctaa aaacgacttc ttatggaata 360
aaaaaggatt aaaaaatctc caaagggagc a                                 391
```

<210> 65
<211> 517
<212> DNA
<213> Homo sapiens

<400> 65

```
acaaatactg attttaatta aacataaggt aaactctagg cagggggcatc tttcagccta  60
```

```
aaaattagca aaaactgttg aaacaaggca cagttttttc cccatatttg ttacgtcgtg 120
gctccagtta cggaaaaatt ttaatgaaaa cgttaaacat aaaaatagaa gtttgagatt 180
ttaaaaagtg tataaaaagc cccacaaaac ttgtcaacgt tgttccttat tctacaaaat 240
agcaccagta agaagagtaa aaggtgttaa aaaccattat gacagcattt ctgaaatgca 300
gcttgtctga attcccgttc tccctaaaaa cgacttctta tggaataaaa aaggattaaa 360
aaatctccaa agggagcacc gagctttgca gttttccctg tcatctctca gatgtgggga 420
aggtatgaga aatgtatgtc tgtccctgac tgctgtcact gcctctgagt ttagtaaaaa 480
gatgagaaat gagggtagca gacttctcat ctgggga                            517
```

<210> 66
<211> 442
<212> DNA
<213> Homo sapiens

<400> 66

```
gacaaatact gattttaatt aaacataagg taaactctag gcatccgtca tctttcagcc 60
taaaaattag caaaaactgt tgaaacaagg cacagttttt tccccatatt tgttacgtcg 120
tggctccagt tacaaaaaaa attttaatga aaacgttaaa cataaaaata gaagtttgag 180
attttaaaaa gtgtataaaa agccccacaa aacttgtcaa cgttgttcct tattctacaa 240
aatagcacca gtaagaagag taaaaggtgt taaaaaccat tatgacagca tttctgaaat 300
gcagcttgtc tgaattcccg ttctccctaa aaacgacttc ttatggaata aaaaaggatt 360
aaaaaatctc caaagggagc accgagcttt gcagttttcc ctgtcatctc gcagatgtgg 420
ggaaggtatg agaaatgtat gt                                            442
```

<210> 67
<211> 396
<212> DNA
<213> Homo sapiens

<400> 67

```
gcagtcaggg acagacatac atttctcata ccttccccac atctgagaga tgacagggaa 60
aactgcaaag ctcggtgctc cctttggaga ttttttaatc cttttttttt ccataagaag 120
tcgtttttag ggagaacggg aattcagaca agctgcattt cagaaatgct gtcataatgg 180
ttttaacac cttttactct tcttactggt gctattttgt agaataagga caacgttga 240
caagttttgt ggggcttttt atacactttt taaaatctca aacttctatt tttatgttta 300
acgttttcat taaaattttt ttgtaactgg agccacgacg taacaaatat ggggaaaaaa 360
ctgtgccttg tttcaacagt ttttgctaat ttttag                            396
```

<210> 68

<211> 287

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (7)..(7)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (169)..(169)
<223> May be any nucleic acid

<400> 68

```
agacaantac tgattttaat taaacataag gtaaactcta ggcatccgtc atctttcagc  60
ctaaaaatta gcaaaaactg ttgaaacaag gcacagtttt tcccccatat ttgttacgtc 120
gtggctccag ttacaaaaaa aattttaatg aaaacgttaa acataaaant agaagtttga 180
gattttaaaa agtgtataaa aagccccaca aaacttgtca acgttgttcc ttattctaca 240
aaatagcacc agtaagaaga gtaaaaggtg ttaaaaacca ttatgac            287
```


<210> 69

<211> 356

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (193)..(193)
<223> May be any nucleic acid

<400> 69

```
attgaagaat ggggcccatt tgacttggtg attggcggaa ccgatgcaac gatctctcaa  60
atgtgaatcc agccaggaaa ggcctgtatg agggtacagg ccggctcttc ttcgaatttt 120
accacctgct gaattactca cgccccaagg agggtgatga ccggccgttc ttctggatgt 180
ttgagaatgt tgnagccatg aaggttggcg acaagaggga catctcacgg ttcctggagt 240
gtaatccagt gatgattgat gccatcaaag tttctgctgc tcacagggcc cgatacttct 300
ggggcaacct acccgggatg aacaggatct ttggctttcc tgtgcactac acagac    356
```


<210> 70

<211> 408

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (408)..(408)
<223> May be any nucleic acid

<400> 70

```
tttagacaaa tactgatttt aattaaacat aaggtaaact ctaggcatcc gtcatctttc 60
agcctaaaaa ttagcaaaaa ctgttgaaac aaggcacagt tttttcccca tatttgttac 120
gtcgtggctc cagttacaaa aaaaatttta atgaaacgt taaacataaa aatagaagtt 180
tgagatttta aaaagtgtat aaaaagcccc acaaaacttg tcaacgttgt tccttattct 240
acaaaatagc accagtaaga agagtaaaag gtgttaaaaa ccattatgac agcatttctg 300
aaatgcagct tgtctgaatt cccgttctcc ctaaaaacga cttcttatgg aataaaaaag 360
gattaaaaaa tctccaaagg gagcaccgag ctttgcagtt ttccctgn 408
```

<210> 71

<211> 439

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (50)..(50)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (85)..(85)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (405)..(405)
<223> May be any nucleic acid

<400> 71

```
gcatgtagct acaggacatt tttaagggcc caggatcgtt ttttcccagn tgcaagcaga 60
agagaaaatg ttgtatatgt ctttnacccg gcacattccc cttgcctaaa tacaagggct 120
ggagtctgca cgggacctat tagagtattt tccacaatga tgatgatttc agcagggatg 180
acgtcatcat cacattcagg gctatttttt cccccacaaa cccaagggca ggggccactc 240
ttagctaaat ccctccccgt gactgcaata gaaccctctg gggagctcag gaaggggggt 300
gtgctgagtt ctataatata agctgccata tattttgtag acaagtatgg ctcctcccat 360
```

atctccctct tccctaggag aggagtgtga aagcaaggga gcttngataa gacacccct 420

caaacccatt ccctctcca   439

<210> 72

<211> 491

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (26)..(27)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (33)..(33)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (188)..(188)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (301)..(301)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (339)..(339)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (360)..(360)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (379)..(379)
<223> May be any nucleic acid

<400> 72

ttaattaaac ataaggtaaa ctctanngca tcngtcatct ttcagcctaa aaattagcaa 60

aaactgttga aacaaggcac agttttttcc ccatatttgt tacgtcgtgg ctccagttac 120

aaaaaaaatt ttaatgaaaa cgttaaacat aaaaatagaa gtttgagatt ttaaaaagtg 180

tataaaangc cccacaaaac ttgtcaacgt tgttccttat tctacaaaat agcaccagta 240

agaagagtaa aaggtgttaa aaaccattat gacagcattt ctgaaatgca gcttgtctga 300

nttcccgttc tccctaaaaa cgacttctta tgggataana aagggattaa aaaatctccn 360

aaagggaggc accgagcttt gcaggttttc cctggtcatc tctcaggatg tggggggagg 420

gtatggggaa atggtatggt ctggtccctg gactggctgg tcactgcctc tggggtttng 480

gtaaaagggt g 491

<210> 73

<211> 443

<212> DNA

<213> Homo sapiens

<220>
<221> Unsure
<222> (9)..(9)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (11)..(11)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (23)..(24)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (126)..(126)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (157)..(157)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (170)..(170)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (341)..(341)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (347)..(347)
<223> May be any nucleic acid

<220>

<220>
<221> Unsure
<222> (371)..(371)
<223> May be any nucleic acid

<220>
<221> Unsure
<222> (405)..(405)
<223> May be any nucleic acid

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acatctcacg gttcctggag tgtaatccag tgatgattga tgccatcaaa gtttctgctg 240
ctcacagggc ccgatacttc tggggcaacc tacccgggat gaacaggatc tttggctttc 300
ctgtgcacta cacagacgtg tcccaacatg gggccgtggg ngccgcncca ggaagcttgc 360
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<210> 74
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<213> Homo sapiens

<400> 74

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cctgaagact ccgtaccctc tgccatcttg ccgagggagt ctccttttag aaaacaatca 180
aagggttatt gcatgagtct ggatgaatcc cactctcagc tgtccacggg cccgaccacc 240
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aaaaaaaatt ttaatgaaaa cgttaaacat aaaaatagaa gtttgagatt ttaaaaagtg 180

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aaatggtaga tacaacctga tatcttgtgg aacaaggcat acaacagcaa agcaacacca 300
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atagaagttt gagattttaa aaagtgtata aaaagcccca caaaacttgt caacgttgtt 180
ccttattcta caaaatagca ccagtaagaa gagtaaaagg tgttaaaaac cattatgaca 240
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tgagatttta aaaagtgtat aaaaagcccc acaaaacttg tcaacgttgt tccttattct 240

acaaaatagc accagtaaga agagtaaaag gtgttaaaaa ccattatgac agcatttctg 300

aaatgcagct tgtctgaatt cccgttctcc ctaaaaacga cttcttatgg aataaaaaag 360

gattaaaaaa tctccaaagg gagcaccgag ctttgcagtt ttccctgtca tctctcagat 420

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tggctccagt tacgaaaaaa attttaatga aaacgttaaa cataaaaata gaagtttgag 180

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cgtcgtggct ccagttacaa aaaaatttt aatgaaaacg ttaaacataa aaatagaagt 180

ttgagatttt aaaaagtgta taaaaagccc cacaaaactt gtcaacgttg ttccttattc 240

tacaaaatag caccagtaag aagagtaaaa ggtgttaaaa accattatga cagcatttct 300

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